

LICA

LONG ISLAND COMPUTER ASSOCIATION

President, AL STONE Vice President, BOB KOWITT Secretary, JACKIE TULUMELLO Treasurer, AILEEN HARRISON
CBBS (516) 561-6590 STACK ADDRESS: P.O. BOX 71 HICKSVILLE N.Y. 11801 (516) 997-3653 Editor, AL LEVY

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THE STACK

April 1982

PRESIDENT'S MESSAGE

LICA is going to sponsor a flea market in September. It won't be accompanied by a great indoor commercial bourse like the TCF. It probably won't be as large as the twice-yearly LIMARC flea market or the Newark flea market/show. What we hope it will be will be fun...and mutually profitable to the vendors, the attendees, and to LICA.

LICA can do many exciting and meaningful things if we can increase our income. The obvious benefits are a bigger STACK, a more sophisticated CBBS, and the corporate acquisition of extraordinary hardware and software as may occasionally become available. Our membership dues are only \$12 per year, yet nearly 40% of the attendees at our General and User Group meetings are not currently paid-up members of the overall Association!

We can't change the world - and we can't change human nature. What we can do is work like hell on the organization and planning, promotion, and ultimate operation of the LICA flea market. I don't want to draft anyone - what I'm looking for are sincerely motivated volunteers like the first few who constituted the initial survey committee which came up with at least one suitable site, and two probable dates for this thing. We'll need plenty of help up to and including the actual date in the Fall.

Both the Suffolk County Computer Association and the New York Amateur Computer Club have contacted us and requested to be included in our plans. Come on, folks. Let's make this "first annual" event the success it should be.

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MONTHLY MEETING

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LICA meets each month on the third Friday evening at 8:00 in Room 508, Building 500, The New York Institute of Technology, Old Westbury Campus. The APRIL meeting will take place on the 16th. The speaker will be RALPH KENYON, who will speak about and demonstrate "Little Ada". This is a complete compiler system for a limited subset of the new DOD language. Mr. Kenyon will offer copies of the DOD books containing complete outlines for ADA. Members can refer to the last 4 issues of "MICROSYSTEMS" in which they will find a 4 part article, (by Ralph Kenyon), documenting the theory, philosophy, & codes for "Little Ada".

THE SECRETARY'S REPORT MARCH 1982 MEETING

Harry Phillips announced that the Long Island Computer Association is now filed as a non-profit corporation in the State of New York.

It was decided that our flea market will be held September 18th or 25th. The exact location will be announced later. Anyone wishing to help out should contact a member of the committee (Aileen Harrison, Phil Cochran, or Larry Adkins) or an officer of LICA.

LICA now has the LEXICON MODEM to rent to members by the month. Anyone interested in renting it should contact Aileen Harrison.

The CP/M Users Group, chaired by Bob Kowitt, will begin meeting again.

Augie Schwabb announced that he will be stepping down as leader of the S-100 subgroup. Augie's responsibilities will be assumed by his co-chairman, Richard Wilson. For five years, Augie has unselfishly brought his wit, generosity and ability to the S-100 sub-group. This, plus his relentless and extremely capable ability to run thoroughly engrossing meetings, with a heaping dose of qualified speakers, enlivened discussions, probing questions, etc. has made the S-100 club a model for any other organization, amateur or professional. From the membership of S-100**THANKS AUGIE.**

Two months ago, Ron Richards was invited (on very short notice) to speak to LICA on the subject of "rotating media." His treatment of floppy disks created so much interest that he was invited back to continue his discussion. His topic at this meeting was "Hard Disk Technology".

Ron told us that hard disks will always be more expensive than floppy disk, but compensate because of their great storage capacity and lack of wear phenomena. The information transfer rate is 10 times faster than a floppy. The rotation speed is between 1200 and 2400 RPM. In response to the enquiry of a member, he distinguished between the terms "hard disk" and "Winchester". The Winchester is defined by the type of head and the method by which the head flies close to the disk. The environment of the disk must be hyper-clean, as dirt or oxide coating destroys the aerodynamics of the head and causes the head to crash onto the disk, (a "disk-crash").

He discussed strategies for a backup of a hard disk system and pointed out the advantages of tape as opposed to floppies for a backup. Ron spoke of the problems of removable hard disk, which could be a serviceman's nightmare.

Ron's reply to a question concerning the cleaning of read-write heads inspired our editor to pick up his seldomly used screw driver and clean his heads, (he has three). Unfortunately, when he finished reassembling, there was a part left over. In his attempt to put it back, the part broke. With the able assistance of co-member Angelo Tulumello, via Ma Bell, he was able to reconstruct and repair the broken part. Whether our editor is a hack or a hacker we believe that he now has a clean head.

(But not necessarily aligned. ED)

NOTICES

The New York Computer Show will be held Thursday through Sunday April 22-25, at Nassau Coliseum, Uniondale, Long Island. Show hours are 11:AM to 6:PM daily. The show is open to the public and admission is \$5 for adults, \$3 for children. The exposition features computers for business, industry, scientific and engineering applications, government, education, home and personal use.

There will be 80,000 square feet of display space, containing over 50 million dollars worth of equipment. On display will be computers ranging in cost from \$75 to \$75,000. The latest in software will also be introduced. Among the participating manufacturers are IBM, NEC, Digital, Wang, Radio Shack, Atari, Commodore, Quantel, Heathkit, Apple, and CPT.

Dealers and retailers from Long Island will be selling right at the show. For more information, contact Northeast Expositions, 824 Boylston Street, Chestnut Hill MA 02167. TEL(617)-739 2000

68000 Micro News

A new magazine has been announced which will deal exclusively with the Motorola 68000 microprocessor and related hardware and software products. The 68000 is available from several companys on the S-100 bus and Intel Multibus. The magazine "68000 Micro News" is looking for articles, letters and people who are willing to be contributing editors. Subscription rates are \$25 per year for 12 issues. Mr. Dave Bollman, (president), can be reached on computer bulletin boards (215) 435-3388 (24 hour) or (215) 398-3937 (24 hour RBBS) or by phone at (215) 439-3888.

APPLE, TRS-80 & OTHER MICROCOMPUTER OWNERS

SUBJECT: COMPUTER SHOW - NEW YORK CITY - APRIL 2,3,4, 1982

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Exhibitor Info.: (201) 297-2526

SAVE \$2.00

EPSON 80-GRAFTAX MODE CODES 2/28/82 E.M.F.

MODE	NORMAL	EMPHASIZED	DOUBLE	DOUBLE-EMPHAS.
Speed	100%	50%	50%	25%
Features	feeds 1/216 hits 2X	up 1/216 & 2X	

----> EXPANDED double width 40 CPL 5 CPI 12 dots/chr <-----
auto shut-off after EACH line.

Turn ON CHR\$(27)'S' CHR\$(27)'E' CHR\$(27)'G' 'E' & 'G'
ON CHR\$(14)

Turn OFF CHR\$(27)'Y' CHR\$(27)'F' CHR\$(27)'H' 'F' & 'H'
OFF CHR\$(20)

----> NORMAL standard 80 CPL 10 CPI 6 dots/chr <-----

Turn ON CHR\$(27)'S' CHR\$(27)'E' CHR\$(27)'G' 'E' & 'G'
OFF CHR\$(27)'Q' <-(@ resets ALL)

----> CONDENSED-EXPANDED 66 CPL 8.25 CPI 7dots/chr <-----
Expanded auto shut-off after each line.

Turn ON C\$(14)C\$(15) ...NOT... CHR\$(27)'G'NOT....
OFF C\$(18)c\$(20) ..USED... CHR\$(27)'H' ...USED....

----> CONDENSED small 132 CPL 16.5 CPI 3.5 dots/chr <-----

Turn ON CHR\$(27)'P' ...NOT... CHR\$(27)'G'NOT....
ON CHR\$(15) ..USED... ..USED....

Turn OFF CHR\$(27)'Q' CHR\$(27)'H'
OFF CHR\$(18)

-> ITALICS ON=CHR\$(27)'4' OFF=CHR\$(27)'5' use with any above.
-> Feed 8 lines/in. = CHR\$(27)'0' = .125in. = 9 dots
-> 6 lines/in. = CHR\$(27)'2' = .168in. = 12 dots
-> 7/72 lines/in. = CHR\$(27)'1' = .098in. = 7 dots

EPSON 80-GRAFTAX MODE CODES 2/28/82 E.M.F.

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OFF CHR\$(20)

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Turn ON CHR\$(27)'S' CHR\$(27)'E' CHR\$(27)'G' 'E' & 'G'
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-> 6 lines/in. = CHR\$(27)'2' = .168in. = 12 dots
-> 7/72 lines/in. = CHR\$(27)'1' = .098in. = 7 dots

Modify EPSON MX-80 Cable to defeat Out-Of-Paper switch
by: Ed Fischer

.....
sending ESC 9 will DEFEAT Out-Of-Paper switch.
sending ESC 9 will let switch function normally
This worked on my MX-80 F/T with and without GRAFTAX

1. Cut wire going to pin 12 of the MX-80 connector.
2. Cut wire going to pin 16 of the MX-80 connector.
3. Tie wire from TRS that WAS going to MX pin 12, TO MX pin 16.
4. DO NOT connect the loose wires A and B to anything.
5. Tape (insulate) exposed ends of wires A and B.

Epson Connector Pin No.	TR8-80 Connector Pin No.
-------------------------------	--------------------------------

12 -----X cut A /----- 'out of paper' 23	
	tie / (together
16 -----/ B cut X----- 'logic ground' 31	

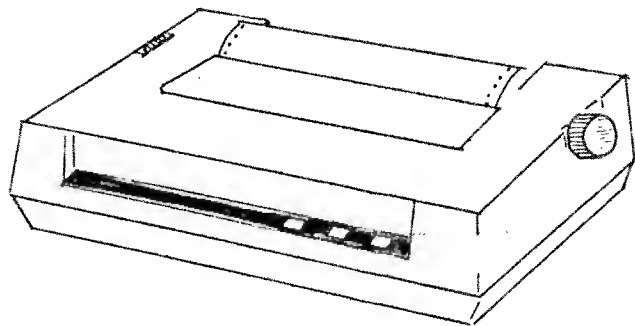
* Correction submitted for my Mailist
Routine printed in the March edition of
The Stack. Line 150 should have read:
150 A\$=N\$(B)

In response to some criticism, the
backslash "\" is a line divider. I
believe that many systems use a
semi-colon for the same purpose. Poke
0,160 means "Blank the Cursor". Last
but not least, "---- Screen Display
Below ----" was not part of the program !
The Screen Display was from my "Real
Program", The code was prepared for The
Stack ie. they didn't match exactly.
The program is used to create a "Command
File", (CP/M "Submit"), which allows the
user to type a number plus an identifier
for searching a Mailist for a particular
name. I use many disks for the Mailist
and don not want to remember the names
of all the files, nor do I want to
answer all of the prompts which are part
of the Mailist program. The command
file does all of the work after it has
gotten the two pieces of information
requested.

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Jultronics has offered LICA a quantity discount on the printers advertised below. Quantity (2), \$50.00 plus \$25.00 for any additional. The C.Itoh Comet I (Model 8300) is advertised by discounters in Byte Magazine for \$450.



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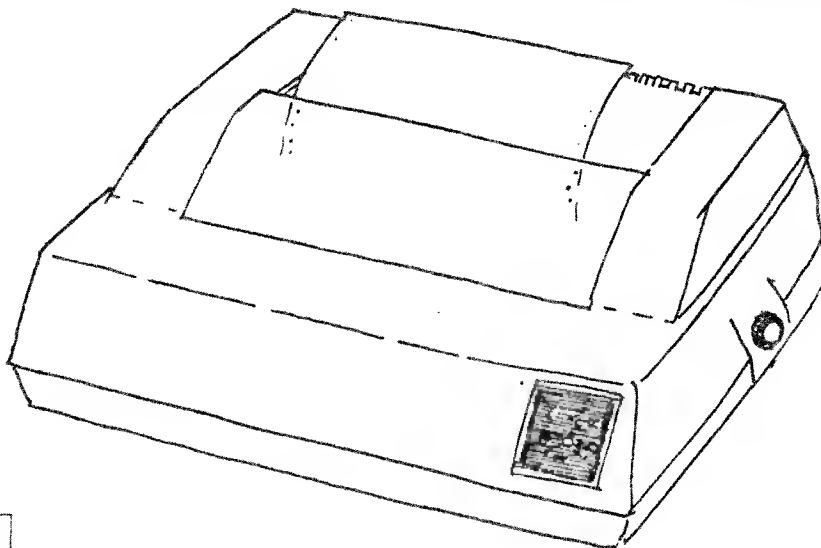
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100 PRINT"NOTPROGRAMMED BY PHILIP COCHEMS :NOV.1981AND"
110 PRINT"AND ANALYSIS OF HOME OWNERSHIP COSTS"
120 PRINT"FOR TAXPAYERS USING ITEMIZED DEDUCTIONS"
130 INPUT"NOTPREPARED FOR";B$
140 INPUT"BY:";A$
150 INPUT"SALE PRICE OF HOME";SP
160 INPUT"CASH REQUIRED";DP
170 F=SP-DP:N=12
180 INPUT"NUMBER OF YEARS";Y
190 INPUT"INTEREST RATE";I
200 R=((I/100)*P/N)/(1-1/((I/100)/N+1)^(N*Y))
210 PRINT"LOAN.....YEARS...INTER.RATE = SUB-TOTAL
220 PRINTP,Y,I,INT(R)"11.00
230 INPUT"(APPROX.) MONTHLY DEPOSIT TAXES";TD
240 INPUT"(APPROX.) MONTHLY PAYMT INSURANCE";ID
250 MP=R+TD+ID:PRINT"TOTAL MONTHLY PAYMENT.....$"MP
260 II=I/100
270 PRINT"EXPENSE ITEMS FOR INCOME TAX PURPOSES
280 MI=P*II/N
290 PRINT"FIRST MONTHS INTEREST:$"MI
300 PRINT"MONTHLY TAX DEPOSIT: $"TD
310 SUB=(P*II/N)+TD
320 PRINT"TOTAL DEDUCTIONS.....$"SUB
330 INPUT"ENTER YOUR TAX BRACKET";TB
340 D=SUB*TB/100
350 PRINT"NTAX BRACKET.....:"TB"%
360 PRINT"MONTHLY CASH SAVINGS.....$"D
370 PRINT"ACTUAL MONTHLY PAYMENT....$"MP-D
380 PRINT"ACTUAL MONTHLY COST.....$"MI-R
READY.

```



```

10 REM COMMODORE MOVE DATA LINES TO A FILE
20 REM COMMODORE PET 4.0 PHILIP COCHEMS 3/23/82
100 DATA A,B,C,D,E,F,G
110 DATA AA,BB,CC,DD,EE,FF,GG
120 DATA 1,2,3,4,5,6,7
130 DATA 11,22,33,44,55,66,77
140 DATA #,#,#,#,#,#,#
145 :
150 REM ↑ DATA TO WRITE TO FILE ↑
155 :
1000 DOPEN#1,"DFILE",W:REM OPEN DISK FILE TO WRITE
1020 IFDS<>0THENPRINTDS$:STOP:REM DISK ERROR CHECK
1040 FORI=1TO7
1060 READA$(I):PRINTA$(I):REM READ DATA LINES
1080 PRINT#1,A$(1):REM PRINT TO DISK OR TAPE
1100 PRINT#1,A$(2)
1120 PRINT#1,A$(3)
1140 PRINT#1,A$(4)
1160 PRINT#1,A$(5)
1180 PRINT#1,A$(6)
1200 PRINT#1,A$(7)
1220 REM "#"= LAST DATA LINE
1240 IFA$(1)="#"THENDCLOSE#1:END

1260 GOTO1040
2000 REM READ BACK DATA IN FILE
2020 DOPEN#1,"DFILE"
2040 FOR I = 1 TO 7
2050 INPUT#1,A$(I)
2070 IF A$(1)="#"THENDCLOSE#1:END
2090 PRINTA$(I)
2110 NEXTI
2130 GOTO 2040
READY.

```

PERSONAL ADVICE ON PERSONAL COMPUTERS.

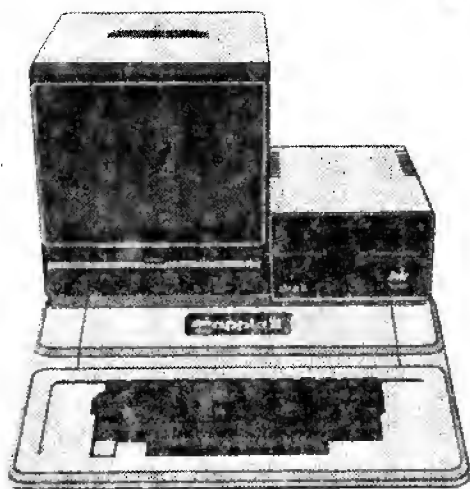


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Coupon Offer Valid April 1 - May 15, 1982

There really isn't enough room on the page, but, I will try this anyway.
 I type a catalog of Lp records which includes LABELS (Capitol, Columbia, etc). This routine saves the name of each label, prints them in Alfa order on the screen, with no spill over, (CR in correct place), & I have a choice of typing a number, a CR, or a new name. The only PITA was 20TH CENTURY FOX. Any questions ? (Al Levy)
 REM Dimension L\$ (50 times)(20 characters Maximum)L1\$(1 time)(20 char. Max)etc.

```

10 DIM L$(50:20),L1$(1:20),L2$(1:20),L3$(1:20),L4$(1:20)\Z=0
REM Z$=Clear the screen - POKE 0,160=Knock Out Cursor
20 PRINT Z$\POKE0,160\Z0=0\IF Z=0 THEN GOTO 100
REM Z=0,If this is 1st time, No sense in Alphabetizing. Backslash=Split Up Line For
Multiple Commands. PLOT=Print On Top Line of Video, No Cursor
30 PLOT 0,45,0\FOR Z8=1 TO Z\Z9=LEN(L$(Z8))\Z0=Z9+INT(Z8/10)+3
REM Since Z increments when a NEW ITEM is entered,Subroutine "works"(Z)times.
50 Z2=Z2+Z0\IF Z2>63 THEN PRINT\Z2=Z9+INT(Z8/10)+3
REM Z9=Length of EACH L$. EX:L$(1)="hello",Z9=5 characters
REM Z0=Length of This Item + Counter Divided by 10 and 3 added
REM Z2=Total Length Of All Items Up To This Point
REM If TOTAL characters is more than 63 then Print a CR
REM A comma keeps PRINT(s) on same line.
60 PRINT Z8,".",L$(Z8),\NEXT\PRINT\Z9,Z0,Z2=0
70 FOR Y=PEEK(0)TO PEEK(0)+63\POKE Y,27\nEXT\PRINT
REM PEEK(0)=Location of Cursor :
REM POKE Y,27=Print Cursor Character From Normal Screen Location
REM Until End Of Line(Peek 0+63)...Next Line
REM In other Words, "Draw A White Line" Across the Screen.
80 PRINT"1.Pick A Number From Above"\PRINT"2.CR=Same As Last (",L3$,")"
100 INPUT"3.Type New Label Name:",L$(Z+1)
110 IF Z=0 AND L$(Z+1)="" THEN PRINT Z$\GOTO 100
REM If 1st Time and User Typed CR (Carraige Return)
REM Then Clear The Screen and Start Over
120 POKE 0,160\PLOT 30,3,0\PRINT"Is This Correct ? ",
130 INPUT" ",Y$\POKE0,160\REM INPUT1(No CR after answer)
140 FOR G=7103 TO 7040 STEP-1\POKE G,160\nEXT
REM Line Above ERASES the question from the display.
150 IF Y$="" THEN GOTO 120
160 RO=ASC(Y$)\IF RO=78 OR RO=110 THEN GOTO 20\REM "N" or "n"
170 IF RO=89 OR RO=121 THEN PRINT Z$\POKE0,160\GOTO 190\REM "Y" or "y"
180 GOTO 120\REM Wrong Input, Not A Yes OR a No !
190 IF L$(Z+1)="" THEN L$(Z+1)=L$(Z)\GOTO 400\REM Same as last
200 L2$=L$(Z+1)\L3$=L2$\V2=LEN(L2$)\REM Save String(L$(Z+1)as L2$ and L3$
210 FOR Y=1 TO V2\REM You typed a Control Char. OR some other WEIRD tHing.
220 IF MID$(L2$,Y,Y)<" " THEN PRINT Z$\POKE0,160\GOTO 20
230 NEXT\REM- You had better try again !
240 IF ASC(L$(Z+1))>57 THEN GOTO 290\REM 1ST char. isn't a number
250 IF V2>2 THEN GOTO 290\REM The Number is Longer than 2 digits
260 V=VAL(L$(Z+1))\FOR Y=1 TO Z\IF V=Y THEN GOTO 280
REM It is a legit Number,You have picked one of the items from the list
270 NEXT\PRINT Z$\POKE0,160\GOTO 20\REM Blew it again !
280 L$(Z+1)=L$(V)\L3$=L$(V)\L2$=L3$\GOTO 400\REM Got your number baby !
290 Z1=0
300 FOR Y=1 TO Z\IF L$(Z+1)=L$(Y) THEN GOTO 400
REM You Typed In The Same Thing as before Dummy.
310 IF L$(Y)<L$(Y+1) THEN GOTO 330\REM Start Sorting
320 L1$=L$(Y)\L2$=L$(Y+1)\L$(Y)=L2$\L$(Y+1)=L1$\Trade Off
330 NEXT\Z1=Z1+1\IF Z1<Z+1 THEN GOTO 300\REM Keep Sorting Till Done.
340 Z=Z+1
400 REM Goto Next Routine In Program

```

The Seventh Trenton Computer Festival TCF-82

APRIL 17 & 18, 1982
AT TRENTON STATE COLLEGE
TRENTON, NEW JERSEY
10 AM TO 6 PM, SATURDAY, 17
10 AM TO 4 PM, SUNDAY, 18



Super Outdoor Flea Market

Surplus computer gear, bargains galore, over 5 acres of space (5/spot, no electricity).



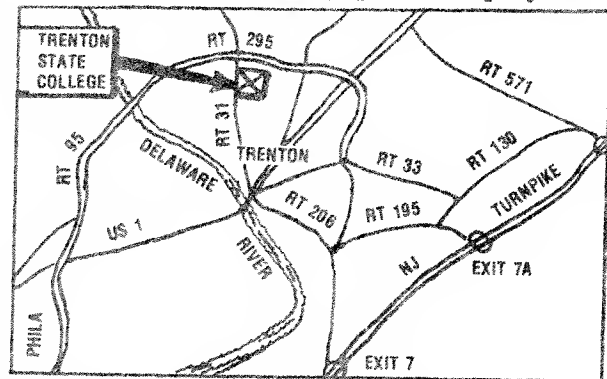
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In an effort to cover our costs of duplication and mailing, and to provide a more extensive monthly edition of THE STACK, commercial display ads are accepted in 1/4, 1/2 and Full Page sizes. Minimum participation is for three months. The three month rates are \$45, \$65, and \$100 respectively. Copy need not be the same each month, Camera ready preferably. Type setting & layout work available at additional charge.

All checks should be made payable to LICA

The Long Island Computer Association is open to everyone, amateur or professional, with an interest in computers, computer applications, programming, or related subjects. Dues \$12.00 per year which includes monthly issues of this publication.

The STACK is also mailed to other computer clubs on an exchange basis as well as to various technical publishers. Permission for reprinting or quoting items in The STACK is granted providing that credit is given & a copy of the reprint is sent to The STACK. Members can vote in club elections, & place non-commercial classified ads (at no charge) and commercial ads at nominal cost.

Member articles and other data affecting The STACK must be received by the 15th day of any month, to be published in the following issue. All copy should be sent to:

Al Levy P.O. Box 71 Hicksville N.Y. 11802 (516) 997-3653

SUB-GROUP

CHAIRMEN

PHONE (516)

Meetings Each Month

S-100

Richard Wilson

747-4241

2nd Friday 7:30

TRS-80

Bob Zito

822-4031

2nd & 3rd Friday 7:00

6502

Steve Perry

744-6462

680X

Roger Kaucher

796-8764

ATTENTION ALL MEMBERS OF L.I.C.A. WHO OWN THE RADIO SHACK COLOR COMPUTER

Please let S. PERRY JENKINS, P.O. BOX 62, SOUTHAMPTON, NY 11968 have your name and address. He is compiling a list of all RSCC owners so as to share information etc. It is certainly in your best interest to contact him either by mail or at the meeting.

The Stack LONG ISLAND
COMPUTER ASSOCIATION
PO BOX 71 • HICKSVILLE, NY 11802

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